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What Forces Move Tectonic Plates?

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Movement of tectonic plates is a fact already scientifically accepted. However, it is not clear what forces are behind these movements. These days majority of scientists believe that one of the primary forces behind plates movement is thermal convection occurring in the mantle. The other suggestions are gravity, centrifugal forces, or any secondary actions (or rather effects) that may assist in plate movements such as ridge push, slab pull or trench suction, tides and glaciers. None of the above reason is precisely explained and, they leave many questions unanswered. So, these theories remaining mainly unproved. This paper offers a new explanation regarding forces responsible for moving tectonic plates based on fundamental laws of mechanics and physics.

A model of Earth was analyzed and some results are presented. In this model, the Earth's lithosphere is not a homogenized body. Therefore, the Earth's is not balanced. Our globe for millions of years is trying to balance itself by moving tectonic plates. The biggest question until now was, what create tangent forces to the Earth surface causing these movements. This paper answers this question providing also some clues for climate changes which will be further described in the book to be published soon: "Climate, agents of change – why computer models won't work".

Biography:

Tomasz (Tomek) Michal Glowacki - Mechanical Engineer with over 40 years' experience in various industries such as shipbuilding, smelting, construction and education. Worked in different roles from a designer, project manager to general manager. Project Manager Professional (PMP), holder of Six Sigma Plus Black Belt certificate, Ocean Going Yacht-Master, author. Since 2006 he studies various aspects of the global climate, the Earth and the universe. Now, he is semiretired and working part-time as a lecturer at the Institute of Technology UNITEC in Auckland (NZ). Owner and director of – "Glowacki Consulting".